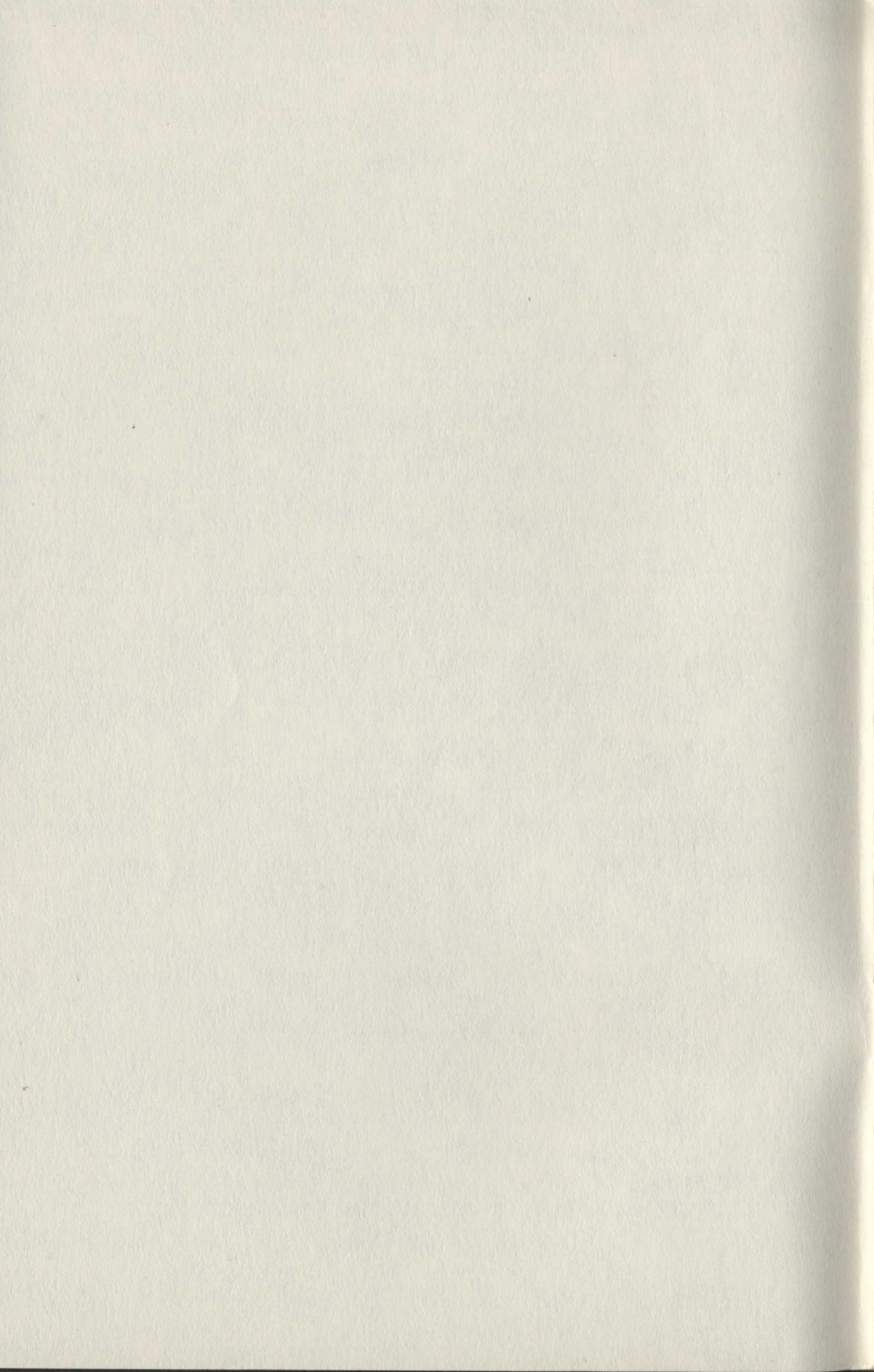


**Annual Tabulations  
of the  
Model Reporting Area  
for  
Blindness Statistics**

**1962  
STATISTICAL  
REPORT**

U.S. Department of  
Health, Education, and Welfare  
Public Health Service



# *1962 Statistical Report*

## **ANNUAL TABULATIONS OF THE MODEL REPORTING AREA FOR BLINDNESS STATISTICS**

Biometrics Branch  
National Institute of  
Neurological Diseases and Blindness  
February 1964

**U.S. Department of  
HEALTH, EDUCATION, and WELFARE  
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## THE MODEL REPORTING AREA FOR BLINDNESS STATISTICS

In 1962 the Biometrics Branch of the National Institute of Neurological Diseases and Blindness, with the counsel and cooperation of the National Society for the Prevention of Blindness, the American Foundation for the Blind, and the Division of Chronic Diseases of the Public Health Service, sponsored the organization of a Model Reporting Area for Blindness Statistics (MRA). This Model Reporting Area is a voluntary association of States which maintain registers of persons with severe visual impairment.

The basis for membership in the MRA is the maintenance of a state-wide register of blind persons by a single State agency and the adherence to a specific set of standards. These standards include the adoption of a uniform definition of blindness, collection of specified information, annual updating of the register to reflect current status, adoption of the Standard Classification of Causes of Severe Vision Impairment and Blindness (prepared by the National Society for the Prevention of Blindness), and preparation of specified summary tabulations. In 1962 the Model Reporting Area included the nine States listed below comprising about 14 percent of the total U.S. population.

The term "blindness" as used by the Model Reporting Area for Blindness Statistics includes severe vision impairment and is defined as follows: visual acuity of 20/200 or less in the better eye with best correction or visual acuity of better than 20/200 if the widest diameter of the field of vision subtends an angle no greater than 20 degrees. Individuals with a progressive eye condition which does not yet meet this definition are excluded.

### MODEL REPORTING AREA STATES, 1962

Connecticut	New Hampshire
Kansas	New Jersey
Louisiana	North Carolina
Massachusetts	Rhode Island
Vermont	

This is the first statistical report of the Model Reporting Area for Blindness Statistics. Further information about the Model Reporting Area may be obtained from :

**Chief, Biometrics Branch**  
**National Institute of Neurological Diseases and Blindness**  
**National Institutes of Health, Bethesda, Md. 20014**

# THE MODEL REPORTING AREA FOR BLINDNESS STATISTICS

In 1968 the Statistics Branch of the National Institute of Neurological Disorders and Blindness, with the counsel and cooperation of the National Society for the Prevention of Blindness, the American Foundation for the Blind, and the Division of Chronic Diseases of the Public Health Service, sponsored the organization of a Model Reporting Area for Blindness Statistics (MRS). This Model Reporting Area is a voluntary association of States which maintain registers of persons with severe visual impairment.

The basis for membership in the MRS is the existing laws of a State which require of blind persons by a single State agency and the submission to a specific set of standards. These standards include the adoption of a uniform definition of blindness, collection of specified information, annual updating of the register in which current status, education of the registrant, classification of causes of sensory vision impairment and blindness (inspired by the National Society for the Prevention of Blindness), and preparation of annual summary tables. In 1968 the Model Reporting Area included the nine States listed below comprising about 14 percent of the total U.S. population. The term "Blindness" as used by the Model Reporting Area for Blindness Statistics includes severe visual impairment and is defined as follows: visual acuity of 20/200 or less in the better eye with best correction or visual field of better than 20/200 if the widest diameter of the field of vision extends to angle no greater than 90 degrees. Individuals with a progressive eye condition which does not yet meet this definition are included.

## 1971 Model Reporting Area Statistics

New Hampshire	Connecticut
New Jersey	Illinois
Pennsylvania	Indiana
Rhode Island	Massachusetts
Vermont	

This is the first statistical report of the Model Reporting Area for Blindness Statistics. Further information about the Model Reporting Area may be obtained from:

Chief, Statistical Branch  
National Institute of Neurological Disorders and Blindness  
National Institutes of Health, Bethesda, Md. 20814



## NOTES AND HIGHLIGHTS

### General Notes

This report is based on the 1962 annual tabulations prepared by each of the nine member States of the Model Reporting Area for Blindness Statistics (MRA). Included here are 19 tables arranged as follows:

Table 1	Summary data.
Tables 2-8	Register additions in 1962.
Tables 9-15	Total on register as of December 31, 1962.
Tables 16-19	Removals from register in 1962.

Population estimates for 1962 were used in computing rates. Estimates were prepared for each State separately by applying the proportion in a given age-sex group (or race-sex group) of the total State population enumerated on April 1, 1960 to the total resident population in the State as estimated by the Census Bureau for July 1, 1962. Population totals were obtained by addition. Since errors in estimation may unduly affect small population groups and for other reasons, rates were not computed for groups with populations under 25,000.

It is important to point out that data on register removals during 1962 and register totals as of December 31, 1962 are probably not as accurate as data on register additions during the year. For several MRA States, major revisions were instituted in 1962 in clearance procedures, methods of updating information, and methods of register maintenance. Some of the data presented in tables 9-19 may reflect the special biases inherent in this first year of operation of the Model Reporting Area.

The MRA, as composed in 1962, cannot be considered to adequately represent the United States as a whole. Projecting MRA data directly to the United States is not recommended.

The following symbols are used in the tables:

- Quantity is zero in frequency tables.
- 0 Quantity is zero in rate or percent tables.
- Rate not computed where estimated population was less than 25,000 or percent with unknown information was 10 or more.

Notes and highlights to individual tables are given below.



**Table 1. Summary table of first additions, readditions, removals, and end-of-year total on register: each MRA State and MRA total, 1962**

There were 4,155 first additions and 148 readditions to the MRA during 1962. (Readditions include new reports of blindness on individuals who were previously removed from the register due to recovered vision, left State, etc.) The rate per 100,000 population for all additions to the MRA was 16.3 with rates ranging from a low of 11.0 per 100,000 for Connecticut to a high of 30.2 per 100,000 for Vermont.

The total number of removals from register for the MRA during 1962 was 3,843. In four States, Connecticut, Kansas, Louisiana and Vermont, there were more removals than additions in 1962. However, as discussed in the general notes, data in this first year for "removals" should not be considered typical. Several of the MRA States may have had unusually thorough register clearances, while others had not completed their register clearances in 1962.

The total number on the register at the end of 1962 for all nine MRA States was 42,474, or a rate of 161.2 per 100,000 population. Rates by State ranged from a low of 103 per 100,000 for New Jersey to a high of 222 for Louisiana. Again, as indicated in the general notes these data for this initial year are not considered typical.

*Register Additions in 1962*

**Table 2. All additions to register by specified race: each MRA State and MRA total, 1962**

There were very few nonwhites other than Negroes—only 14 in all—added to registers of the nine MRA States in 1962. However, there were 744, or 17 percent of the MRA total, with unknown race. Massachusetts accounted for the largest number of unknowns, 506.

**Table 3. All additions to register by age and sex: MRA total, 1962 (number and rate)**

Rates for additions were lowest for the age groups under 45 years, increasing sharply thereafter, with the highest rate, about 300 per 100,000, observed for the 85 and over age group. Only small differences were noted between the three age groups under 45. Rates for each sex followed similar patterns. Those for males were higher than for females under 65 years of age and were lower after that age. However, except for the 65-74 and the 85 and over age groups, the rates were not very different by sex. The much larger rate for females in



the 85 and over age group—344 compared to 233 per 100,000—may, in part, be accounted for by an older female than male population in the last open ended age category. The data do not appear to indicate any major sex difference in rates.

**Table 4. All additions to register by sex and race: each MRA State and MRA total, 1962 (number and rate)**

Rates by race were not computed for the MRA total, Massachusetts and New Jersey because of high proportions of unknowns. Of the remaining MRA States, only Connecticut, Kansas, Louisiana and North Carolina had sufficiently large nonwhite populations to permit meaningful rates to be computed. In these four instances rates for nonwhites were higher than for whites.

Rates for females were slightly higher than for males in most of the MRA States.

**Table 5. All additions to register by age: each MRA State and MRA total, 1962 (number and rate)**

Age-specific rates were not computed for Massachusetts because of the high proportion of unknown age. Of the remaining eight States, all but Louisiana show a rise in the rate with increasing age beginning with the age group 20-44. In Louisiana, the rate falls between the age groups 45-64 and 65-74. Incomplete reporting of persons 65 and older is believed to be responsible for this result.

**Table 6. All additions to register by degree of vision: each MRA State and MRA total, 1962 (number and percent)**

There were very few additions reported with light projection—only 43 in all. Since the distinction between light perception and light projection was being made for the first time by MRA States in 1962, it is believed that the category “light perception” probably includes a number of additions who should have been classified as “light projection”.

The proportion of all additions with “unknown” degree of vision for the MRA total was 11 percent, ranging from no unknowns for Kansas to 31 percent for Vermont. It should be noted that this category includes those presumed to be blind by definition but who could not be adequately examined because of age or other reason as well as those with no report of the actual visual acuity.

Of special interest are the high proportions in each State with vision of exactly 20/200. This may indicate the lack of careful visual acuity measurements or lack of precise recording by the eye examiner.

For the entire MRA about 7 percent of all additions were totally blind, and about 6 percent had field restriction to 20° or less.

**Table 7. All additions to register by sex, race, and degree of vision: MRA total, 1962 (number and percent)**

The percent distributions shown by sex and race appear to be very similar.

**Table 8. All additions to register by age and degree of vision: MRA total, 1962 (number and percent)**

Almost half (46 percent) of the age group under 5 were either totally blind or had light perception or light projection only. Also, another 40 percent of this age group were presumably blind but had "unknown" degree of vision. These high proportions may be due in part to the difficulty in examination of the very young, with only the very serious visual impairments being measurable. In the remaining age groups, the largest proportion occurs in the 20/200 category.

*Total on Register as of December 31, 1962*

**Table 9. Total on register by specified race: each MRA State and MRA total, as of December 31, 1962**

There were very few nonwhites other than Negroes—only 84 in all—on the registers of all nine MRA States at the end of 1962. However, there were 7,917, or close to 20 percent of the MRA total, with unknown race. Massachusetts accounted for the largest number of unknowns, 7,068.

**Table 10. Total on register by age and sex: MRA total, as of December 31, 1962 (number and rate)**

Rates shown were lowest for the "under 5" age group, increasing sharply thereafter with increasing age. This pattern was true for males and for females.

For each age group under 85 years higher rates were observed for males than females; for the 85 and over age group the reverse is true. For all ages combined the male and female rates are almost identical. The data do not appear to indicate any major sex difference in rates.

**Table 11. Total on register by sex and race: each MRA State and MRA total, as of December 31, 1962 (number and rate)**

Rates by race were not computed for the MRA total and Massachusetts because of high proportions of unknowns. Of the remaining eight MRA States, Connecticut, Kansas, Louisiana, New Jersey and North



Carolina had sufficiently large nonwhite populations to permit meaningful rates to be computed. In these five States rates for nonwhites were higher than for whites.

With few exceptions rates for males were about the same in magnitude as for females.

**Table 12. Total on register by age: each MRA State and MRA total, as of December 31, 1962 (number and rate)**

With few exceptions, the rates for each MRA State show a rise with increasing age.

**Table 13. Total on register by degree of vision: each MRA State and MRA total, as of December 31, 1962 (number and percent)**

Only 407, or 1 percent of the end-of-year MRA total, were classified with "light projection". As noted above for table 6, the category "light perception" probably includes persons who should have been classified with "light projection".

The proportion presumed blind but with "unknown" degree of vision for the MRA total was 10 percent, ranging from no unknowns for Kansas to 29 percent for Connecticut. (This category includes those who could not be adequately examined as well as those with no report of the actual visual acuity.)

The proportions with vision of exactly 20/200 ranged from 13 percent for Vermont to 22 percent for Kansas and Massachusetts. For the MRA total, almost a fifth were reported with vision of 20/200. About 13 percent of those on the registers of the nine MRA States were totally blind, and about 6 percent had field restriction to 20° or less.

**Table 14. Total on register by sex, race, and degree of vision: MRA total, as of December 31, 1962 (number and percent)**

The percent distributions of degree of vision shown by sex and race appear to be very similar.

**Table 15. Total on register by age and degree of vision: MRA total, as of December 31, 1962 (number and percent)**

A large proportion (about 44 percent) of the "under 5" age group were either totally blind or had light perception or light projection only. Also, another 43 percent in this age group were presumed blind but had "unknown" degree of vision. These high proportions may be due in part to the difficulty in examination of the very young, with only the very serious visual impairments being measurable. In

the remaining age groups, the largest proportion generally occurs in the 20/200 category.

*Removals from Register in 1962*

**Table 16. Removals from register by reason for removal: each MRA State and MRA total, 1962 (number and percent)**

There appear to be wide differences among States in the distribution of removals from the register according to reason for removal. However, as indicated in the general notes, data in this first year for "removals" should not be considered typical.

It is noted that for each State more than half of the removals in 1962 were because of death.

**Table 17. Removals from register by sex, race, and reason for removal: MRA total, 1962 (number and percent)**

In the percent distribution according to reason for removal, no appreciable differences between sexes were noted for whites or for nonwhites. However, nonwhites appear to have a larger percent removed because of sight restoration than do whites. The latter finding is to a great extent related to the proportion of removals because of sight restoration in North Carolina and Louisiana, since these two States account for the bulk of the nonwhites. (In table 16, it may be seen that North Carolina and Louisiana showed the highest proportions of removals due to sight restoration, 34 percent and 23 percent respectively.)

**Table 18. Removals from register by age and reason for removal: MRA total, 1962 (number and percent)**

For the "under 5" age group, 19 of 23 removals, or 83 percent, were because of death. There is a drop from the high percent under 5 years to 18 percent for ages 5-19 years. Thereafter, the percent of removals due to death increases with age as would be expected.

**Table 19. Removals from register by degree of vision and reason for removal: MRA total, 1962 (number and percent)**

Of the MRA total of 3,843 removals in 1962, 848 (22 percent) were presumed blind but of "unknown" degree of vision. The next most frequent category was vision of 20/200 which accounted for 17 percent of the total. For the 622 persons with sight restored the largest number, 184 or 30 percent, were in the 20/200 category prior to the restoration of sight.



**TABLE 1. Summary table of first additions, readditions, removals, and end-of-year total on register: each MRA State and MRA total, 1962**

State	Estimated midyear population in thousands <sup>1</sup>	Number during year			Total on register at end of year	Rate per 100,000 population	
		First additions	Readditions	Removals		All additions during year	Total on register at end of year
MRA total.....	26, 347	4, 155	148	3, 843	42, 474	16. 3	161. 2
Connecticut.....	2, 625	278	10	540	3, 168	11. 0	120. 7
Kansas.....	2, 215	422	15	552	3, 076	19. 7	138. 9
Louisiana.....	3, 371	461	38	711	7, 477	14. 8	221. 8
Massachusetts.....	5, 188	919	28	707	9, 031	18. 3	174. 1
New Hampshire.....	622	134	1	125	1, 065	21. 7	171. 2
New Jersey.....	6, 357	711	34	284	6, 535	11. 7	102. 8
North Carolina.....	4, 704	1, 021	15	705	10, 388	22. 0	220. 8
Rhode Island.....	878	95	4	74	1, 005	11. 3	114. 5
Vermont.....	387	114	3	145	729	30. 2	188. 4

<sup>1</sup> Source of population estimates: Bureau of the Census, Current Population Reports, Series P-25, No. 272, Sept. 20, 1963. The figures include persons in the Armed Forces stationed in each State and exclude Armed Forces overseas.

**TABLE 2. All additions to register by specified race: each MRA State and MRA total, 1962**

State	Total	White	Negro	Indian	Other	Unknown
MRA total.....	4, 303	2, 755	790	11	3	744
Connecticut.....	288	252	13	—	—	23
Kansas.....	437	370	26	—	1	40
Louisiana.....	499	279	220	—	—	—
Massachusetts.....	947	408	31	1	1	506
New Hampshire.....	135	134	—	1	—	—
New Jersey.....	745	470	112	—	—	163
North Carolina.....	1, 036	640	383	9	—	4
Rhode Island.....	99	85	5	—	1	8
Vermont.....	117	117	—	—	—	—



**TABLE 3. All additions to register by age and sex: MRA total, 1962  
(number and rate)**

Age	Number			Rate per 100,000		
	Total	Male	Female	Total	Male	Female
Total-----	<sup>1</sup> 4, 303	2, 005	2, 294	<sup>1</sup> 16. 3	15. 5	17. 1
Under 5-----	139	81	58	4. 7	5. 4	4. 0
5-19-----	<sup>2</sup> 459	286	171	<sup>2</sup> 6. 5	7. 9	4. 9
20-44-----	456	276	180	5. 3	6. 6	4. 1
45-64-----	<sup>3</sup> 1, 154	574	579	<sup>3</sup> 21. 6	22. 3	21. 0
65-74-----	721	286	435	44. 6	39. 2	49. 0
75-84-----	801	330	471	118. 3	116. 6	119. 5
85 and over-----	427	121	306	302. 8	232. 7	343. 8
Unknown-----	<sup>3</sup> 146	51	94			

<sup>1</sup> Includes 4 persons with sex not stated.

<sup>2</sup> Includes 2 persons with sex not stated.

<sup>3</sup> Includes 1 person with sex not stated.

TABLE 4. All additions to register by sex and race: each MRA State and MRA total, 1962 (number and rate)

State	Total			White			Nonwhite			Unknown		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Number												
MRA total.....	<sup>1</sup> 4, 303	2, 005	2, 294	2, 755	1, 306	1, 449	804	374	430	<sup>1</sup> 744	325	415
Connecticut.....	288	136	152	252	119	133	13	7	6	23	10	13
Kansas.....	437	189	248	370	161	209	27	11	16	40	17	23
Louisiana.....	499	267	232	279	166	113	229	101	119	—	—	—
Massachusetts.....	947	424	523	408	211	197	33	15	18	506	198	308
New Hampshire.....	135	65	70	134	64	70	1	1	—	—	—	—
New Jersey.....	<sup>2</sup> 745	363	380	470	214	256	112	56	56	<sup>2</sup> 163	93	68
North Carolina.....	<sup>2</sup> 1, 036	467	567	640	285	355	392	181	211	<sup>2</sup> 4	1	1
Rhode Island.....	99	44	55	85	36	49	6	2	4	8	6	2
Vermont.....	117	50	67	117	50	67	—	—	—	—	—	—
Rate per 100,000 estimated population												
MRA total.....	<sup>1</sup> 16. 3	15. 5	17. 1	--	--	--	--	--	--			
Connecticut.....	11. 0	10. 6	11. 4	10. 0	9. 7	10. 4	11. 3	12. 3	10. 2			
Kansas.....	19. 7	17. 2	22. 2	17. 5	15. 3	19. 6	26. 5	21. 6	31. 4			
Louisiana.....	14. 8	16. 2	13. 5	12. 2	14. 7	9. 7	20. 3	19. 4	21. 2			
Massachusetts.....	18. 3	16. 9	19. 5	--	--	--	--	--	--			
New Hampshire.....	21. 7	21. 2	22. 2	21. 6	21. 1	22. 2	--	--	--			
New Jersey.....	<sup>2</sup> 11. 7	11. 7	11. 7	--	--	--	--	--	--			
North Carolina.....	<sup>2</sup> 22. 0	20. 1	23. 8	18. 2	16. 4	20. 1	32. 8	31. 2	34. 4			
Rhode Island.....	11. 3	10. 2	12. 3	9. 9	8. 6	11. 2	--	--	--			
Vermont.....	30. 2	26. 3	34. 0	30. 3	26. 3	34. 2	--	--	--			

<sup>1</sup> Includes 4 persons with sex not stated.

<sup>2</sup> Includes 2 persons with sex not stated.



TABLE 5. All additions to register by age: each MRA State and MRA total, 1962 (number and rate)

State	Total	Under 5	5-19	20-44	45-64	65-74	75-84	85 and over	Unknown
Number									
MRA total.....	4, 303	139	459	456	1, 154	721	801	427	146
Connecticut.....	288	6	27	28	76	48	58	39	6
Kansas.....	437	6	62	39	69	62	119	57	23
Louisiana.....	499	17	74	97	225	35	23	22	6
Massachusetts.....	947	38	57	69	189	207	191	96	100
New Hampshire.....	135	4	10	11	28	29	30	20	3
New Jersey.....	745	34	106	93	261	98	97	56	—
North Carolina.....	1, 036	27	102	98	258	213	229	104	5
Rhode Island.....	99	5	11	9	25	14	24	9	2
Vermont.....	117	2	10	12	23	15	30	24	1
Rate per 100,000 estimated population									
MRA total.....	16. 3	4. 7	6. 5	5. 3	21. 6	44. 6	118. 3	302. 8	
Connecticut.....	11. 0	2. 1	4. 1	3. 2	13. 7	28. 6	86. 6	--	
Kansas.....	19. 7	2. 4	10. 5	5. 7	15. 7	40. 8	158. 7	--	
Louisiana.....	14. 8	3. 9	7. 2	9. 2	36. 7	21. 0	33. 3	--	
Massachusetts.....	18. 3	--	--	--	--	--	--	--	
New Hampshire.....	21. 7	5. 9	6. 1	5. 8	21. 7	65. 9	--	--	
New Jersey.....	11. 7	5. 1	6. 7	4. 4	18. 8	24. 3	63. 0	193. 1	
North Carolina.....	22. 0	5. 0	7. 0	6. 3	31. 0	97. 7	260. 2	--	
Rhode Island.....	11. 3	5. 4	5. 0	3. 2	13. 3	23. 0	96. 0	--	
Vermont.....	30. 2	4. 7	9. 1	10. 7	29. 5	55. 6	--	--	



**TABLE 6. All additions to register by degree of vision: each MRA State and MRA total, 1962 (number and percent)**

State	Total	Absolute blindness	Light perception	Light projection	Less than 5/200	5/200 but less than 10/200	10/200 but less than 20/200	20/200	Restricted field	Unknown
Number										
MRA total.....	4, 303	282	<sup>1</sup> 350	43	703	445	758	1, 005	246	471
Connecticut.....	288	16	8	7	43	28	40	60	14	72
Kansas.....	437	41	49	3	56	54	103	116	15	—
Louisiana.....	499	39	<sup>1</sup> 34	—	70	51	90	98	64	53
Massachusetts.....	947	54	63	9	141	129	230	223	67	31
New Hampshire.....	135	3	9	3	32	16	15	39	14	4
New Jersey.....	745	58	81	9	142	59	98	116	19	163
North Carolina.....	1, 036	56	87	9	189	97	157	316	41	84
Rhode Island.....	99	4	9	—	16	10	11	17	4	28
Vermont.....	117	11	10	3	14	1	14	20	8	36
Percent										
MRA total.....	100. 0	6. 6	<sup>1</sup> 8. 1	1. 0	16. 3	10. 3	17. 6	23. 4	5. 7	10. 9
Connecticut.....	100. 0	5. 6	2. 8	2. 4	14. 9	9. 7	13. 9	20. 8	4. 9	25. 0
Kansas.....	100. 0	9. 4	11. 2	. 7	12. 8	12. 4	23. 6	26. 5	3. 4	0
Louisiana.....	100. 0	7. 8	<sup>1</sup> 6. 8	0	14. 0	10. 2	18. 0	19. 6	12. 8	10. 6
Massachusetts.....	100. 0	5. 7	6. 7	1. 0	14. 9	13. 6	24. 3	23. 5	7. 1	3. 3
New Hampshire.....	100. 0	2. 2	6. 7	2. 2	23. 7	11. 9	11. 1	28. 9	10. 4	3. 0
New Jersey.....	100. 0	7. 8	10. 9	1. 2	19. 1	7. 9	13. 2	15. 6	2. 6	21. 9
North Carolina.....	100. 0	5. 4	8. 4	. 9	18. 2	9. 4	15. 2	30. 5	4. 0	8. 1
Rhode Island.....	100. 0	4. 0	9. 1	0	16. 2	10. 1	11. 1	17. 2	4. 0	28. 3
Vermont.....	100. 0	9. 4	8. 5	2. 6	12. 0	. 9	12. 0	17. 1	6. 8	30. 8

<sup>1</sup> Includes 34 persons classified with light perception or light projection.

TABLE 7. All additions to register by sex, race, and degree of vision: MRA total, 1962 (number and percent)

Sex and Race	Total	Absolute blindness	Light perception	Light projection	Less than 5/200	5/200 but less than 10/200	10/200 but less than 20/200	20/200	Restricted field	Unknown
	Number									
Total.....	<sup>1</sup> 4, 303	282	<sup>2</sup> 350	43	703	445	758	<sup>3</sup> 1, 005	246	<sup>4</sup> 471
Male.....	2, 005	132	164	19	309	187	364	473	140	217
Female.....	2, 294	150	186	24	394	258	394	531	106	251
White.....	2, 755	178	208	31	465	288	459	677	142	307
Male.....	1, 306	88	98	11	204	129	238	321	86	131
Female.....	1, 449	90	110	20	261	159	221	356	56	176
Nonwhite.....	804	62	77	5	151	70	118	177	66	78
Male.....	374	24	33	4	72	29	51	91	36	34
Female.....	430	38	44	1	79	41	67	86	30	44
Unknown.....	<sup>1</sup> 744	42	65	7	87	87	181	<sup>3</sup> 151	38	<sup>4</sup> 86
Male.....	325	20	33	4	33	29	75	61	18	52
Female.....	415	22	32	3	54	58	106	89	20	31



## Percent

Total.....	<sup>1</sup> 100.0	6.6	<sup>2</sup> 8.1	1.0	16.3	10.3	17.6	<sup>3</sup> 23.4	5.7	<sup>4</sup> 10.9
Male.....	100.0	6.6	8.2	.9	15.4	9.3	18.2	23.6	7.0	10.8
Female.....	100.0	6.5	8.1	1.0	17.2	11.2	17.2	23.1	4.6	10.9
White.....	100.0	6.5	7.5	1.1	16.9	10.5	16.7	24.6	5.2	11.1
Male.....	100.0	6.7	7.5	.8	15.6	9.9	18.2	24.6	6.6	10.0
Female.....	100.0	6.2	7.6	1.4	18.0	11.0	15.3	24.6	3.9	12.1
Nonwhite.....	100.0	7.7	9.6	.6	18.8	8.7	14.7	22.0	8.2	9.7
Male.....	100.0	6.4	8.8	1.1	19.3	7.8	13.6	24.3	9.6	9.1
Female.....	100.0	8.8	10.2	.2	18.4	9.5	15.6	20.0	7.0	10.2

<sup>1</sup> Includes 4 persons with sex not stated.<sup>2</sup> Includes 34 persons classified with light perception or light projection.<sup>3</sup> Includes 1 person with sex not stated.<sup>4</sup> Includes 3 persons with sex not stated.

TABLE 8. All additions to register by age and degree of vision: MRA total, 1962 (number and percent)

Age	Total	Absolute blindness	Light perception	Light projection	Less than 5/200	5/200 but less than 10/200	10/200 but less than 20/200	20/200	Restricted field	Unknown
Number										
Total.....	4, 303	282	<sup>1</sup> 350	43	703	445	758	1, 005	246	471
Under 5.....	139	36	26	2	9	1	4	5	—	56
5-19.....	459	43	24	2	30	23	75	146	17	99
20-44.....	456	37	38	4	75	42	83	109	29	39
45-64.....	1, 154	47	99	12	198	130	203	256	105	104
65-74.....	721	28	53	12	145	103	131	163	42	44
75-84.....	801	48	61	6	140	93	145	208	31	69
85 and over.....	427	30	37	5	85	40	74	94	11	51
Unknown.....	146	13	12	—	21	13	43	24	11	9
Percent										
Total.....	100. 0	6. 6	<sup>1</sup> 8. 1	1. 0	16. 3	10. 3	17. 6	23. 4	5. 7	10. 9
Under 5.....	100. 0	25. 9	18. 7	1. 4	6. 5	. 7	2. 9	3. 6	0	40. 3
5-19.....	100. 0	9. 4	5. 2	. 4	6. 5	5. 0	16. 3	31. 8	3. 7	21. 6
20-44.....	100. 0	8. 1	8. 3	. 9	16. 4	9. 2	18. 2	23. 9	6. 4	8. 6
45-64.....	100. 0	4. 1	8. 6	1. 0	17. 2	11. 3	17. 6	22. 2	9. 1	9. 0
65-74.....	100. 0	3. 9	7. 4	1. 7	20. 1	14. 3	18. 2	22. 6	5. 8	6. 1
75-84.....	100. 0	6. 0	7. 6	. 7	17. 5	11. 6	18. 1	26. 0	3. 9	8. 6
85 and over.....	100. 0	7. 0	8. 7	1. 2	19. 9	9. 4	17. 3	22. 0	2. 6	11. 9

<sup>1</sup> Includes 34 persons classified with light perception or light projection.



**TABLE 9. Total on register by specified race: each MRA State and MRA total, as of Dec. 31, 1962**

State	Total	White	Negro	Indian	Other	Unknown
MRA total.....	42, 474	25, 427	9, 046	73	11	7, 917
Connecticut.....	3, 168	2, 870	162	—	—	136
Kansas.....	3, 076	2, 528	267	5	1	275
Louisiana.....	7, 477	3, 930	3, 547	—	—	—
Massachusetts.....	9, 031	1, 839	119	1	4	7, 068
New Hampshire.....	1, 065	1, 064	—	1	—	—
New Jersey.....	6, 535	5, 125	1, 015	—	—	395
North Carolina.....	10, 388	6, 415	3, 903	64	4	2
Rhode Island.....	1, 005	927	33	2	2	41
Vermont.....	729	729	—	—	—	—

**TABLE 10. Total on register by age and sex: MRA total, as of Dec. 31, 1962 (number and rate)**

Age	Number			Rate per 100,000		
	Total	Male	Female	Total	Male	Female
Total.....	42, 474	20, 883	21, 591	161. 2	161. 9	160. 6
Under 5.....	365	212	153	12. 4	14. 1	10. 6
5-19.....	4, 374	2, 450	1, 924	61. 6	68. 0	55. 0
20-44.....	6, 873	3, 951	2, 922	80. 6	94. 9	67. 0
45-64.....	11, 095	6, 007	5, 088	207. 9	233. 4	184. 1
65-74.....	7, 398	3, 428	3, 970	457. 5	470. 2	447. 1
75-84.....	7, 337	3, 116	4, 221	1, 083. 8	1, 101. 1	1, 071. 3
85 and over.....	4, 432	1, 473	2, 959	3, 143. 3	2, 832. 7	3, 324. 7
Unknown.....	600	246	354			

TABLE 11. Total on register by sex and race: each MRA State and MRA total, as of Dec. 31, 1962 (number and rate)

State	Total			White			Nonwhite			Unknown		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Number												
MRA total.....	42, 474	20, 883	21, 591	25, 427	12, 653	12, 774	9, 130	4, 659	4, 471	7, 917	3, 571	4, 346
Connecticut.....	3, 168	1, 485	1, 683	2, 870	1, 354	1, 516	162	75	87	136	56	80
Kansas.....	3, 076	1, 455	1, 621	2, 528	1, 178	1, 350	273	145	128	275	132	143
Louisiana.....	7, 477	4, 165	3, 312	3, 930	2, 220	1, 710	3, 547	1, 945	1, 602	—	—	—
Massachusetts.....	9, 031	4, 184	4, 847	1, 839	969	870	124	68	56	7, 068	3, 147	3, 921
New Hampshire.....	1, 065	517	548	1, 064	516	548	1	1	—	—	—	—
New Jersey.....	6, 535	3, 221	3, 314	5, 125	2, 515	2, 610	1, 015	490	525	395	216	179
North Carolina.....	10, 388	5, 052	5, 336	6, 415	3, 131	3, 284	3, 971	1, 920	2, 051	2	1	1
Rhode Island.....	1, 005	478	527	927	444	483	37	15	22	41	19	22
Vermont.....	729	326	403	729	326	403	—	—	—	—	—	—
Rate per 100,000 estimated population												
MRA total.....	161. 2	161. 9	160. 6	--	--	--	--	--	--			
Connecticut.....	120. 7	115. 3	125. 9	114. 3	109. 9	118. 6	140. 9	131. 6	147. 5			
Kansas.....	138. 9	132. 4	145. 3	119. 6	112. 3	126. 8	267. 6	284. 3	251. 0			
Louisiana.....	221. 8	252. 7	192. 2	171. 7	196. 8	147. 3	327. 8	374. 0	285. 1			
Massachusetts.....	174. 1	167. 0	180. 7	--	--	--	--	--	--			
New Hampshire.....	171. 2	169. 0	173. 4	171. 9	169. 7	174. 0	--	--	--			
New Jersey.....	102. 8	103. 4	102. 2	88. 3	88. 3	88. 3	183. 5	183. 5	183. 6			
North Carolina.....	220. 8	217. 8	223. 8	182. 8	180. 0	185. 5	332. 6	330. 5	334. 0			
Rhode Island.....	114. 5	110. 9	117. 9	108. 2	105. 7	110. 5	--	--	--			
Vermont.....	188. 4	171. 6	204. 6	188. 9	171. 6	205. 6	--	--	--			



TABLE 12. Total on register by age: each MRA State and MRA total, as of Dec. 31, 1962 (number and rate)

State	Total	Under 5	5-19	20-44	45-64	65-74	75-84	85 and over	Unknown
Number									
MRA total.....	42, 474	365	4, 374	6, 873	11, 095	7, 398	7, 337	4, 432	600
Connecticut.....	3, 168	24	469	480	736	553	503	354	49
Kansas.....	3, 076	28	256	410	661	513	704	468	36
Louisiana.....	7, 477	46	541	1, 356	2, 483	1, 313	988	550	200
Massachusetts.....	9, 031	87	933	1, 333	2, 048	1, 702	1, 731	1, 040	157
New Hampshire.....	1, 065	10	116	131	221	184	221	171	11
New Jersey.....	6, 535	48	974	1, 017	1, 730	1, 122	951	585	108
North Carolina.....	10, 388	103	907	1, 851	2, 793	1, 702	1, 956	1, 062	14
Rhode Island.....	1, 005	15	122	172	254	192	151	92	7
Vermont.....	729	4	56	123	169	117	132	110	18
Rate per 100,000 estimated population									
MRA total.....	161. 2	12. 4	61. 6	80. 6	207. 9	457. 5	1, 083. 8	3, 143. 3	
Connecticut.....	120. 7	8. 3	70. 8	55. 2	132. 9	329. 2	750. 7	--	
Kansas.....	138. 9	11. 2	43. 2	59. 6	150. 6	337. 5	938. 7	--	
Louisiana.....	221. 8	10. 5	52. 9	129. 3	405. 1	786. 2	1, 431. 9	--	
Massachusetts.....	174. 1	15. 7	71. 5	81. 5	183. 2	452. 7	1, 055. 5	2, 888. 9	
New Hampshire.....	171. 2	14. 7	70. 3	68. 9	171. 3	418. 2	--	--	
New Jersey.....	102. 8	7. 1	61. 9	47. 6	124. 7	277. 7	617. 5	2, 017. 2	
North Carolina.....	220. 8	19. 0	62. 6	118. 7	336. 1	780. 7	2, 222. 7	--	
Rhode Island.....	114. 5	16. 3	55. 0	60. 4	135. 1	314. 8	604. 0	--	
Vermont.....	188. 4	9. 3	50. 9	109. 8	216. 7	433. 3	--	--	

**TABLE 13. Total on register by degree of vision: each MRA State and MRA total, as of Dec. 31, 1962 (number and percent)**

State	Total	Absolute blindness	Light perception	Light projection	Less than 5/200	5/200 but less than 10/200	10/200 but less than 20/200	20/200	Restricted field	Unknown
	Number									
MRA total.....	42, 474	5, 497	<sup>1</sup> 5, 005	407	6, 419	4, 461	6, 103	8, 024	2, 368	4, 190
Connecticut.....	3, 168	355	273	70	474	256	226	441	147	926
Kansas.....	3, 076	531	354	35	413	333	607	666	117	—
Louisiana.....	7, 477	1, 321	<sup>1</sup> 985	—	1, 106	901	998	1, 084	671	411
Massachusetts.....	9, 031	863	834	65	1, 460	993	1, 638	1, 958	520	700
New Hampshire.....	1, 065	118	110	14	233	74	127	224	87	78
New Jersey.....	6, 535	922	1, 003	84	728	962	852	1, 216	357	411
North Carolina.....	10, 388	1, 172	1, 214	116	1, 761	812	1, 470	2, 191	355	1, 297
Rhode Island.....	1, 005	121	132	4	144	93	113	151	50	197
Vermont.....	729	94	100	19	100	17	72	93	64	170
	Percent									
MRA total.....	100. 0	12. 9	<sup>1</sup> 11. 8	1. 0	15. 1	10. 5	14. 4	18. 9	5. 6	9. 9
Connecticut.....	100. 0	11. 2	8. 6	2. 2	15. 0	8. 1	7. 1	13. 9	4. 6	29. 2
Kansas.....	100. 0	17. 3	11. 5	1. 1	13. 4	11. 5	19. 7	21. 7	3. 8	0
Louisiana.....	100. 0	17. 7	<sup>1</sup> 13. 2	0	14. 8	12. 1	13. 3	14. 5	9. 0	5. 5
Massachusetts.....	100. 0	9. 6	9. 2	. 7	16. 2	11. 0	18. 1	21. 7	5. 8	7. 8
New Hampshire.....	100. 0	11. 1	10. 3	1. 3	21. 9	6. 9	11. 9	21. 0	8. 2	7. 3
New Jersey.....	100. 0	14. 1	15. 3	1. 3	11. 1	14. 7	13. 0	18. 6	5. 5	6. 3
North Carolina.....	100. 0	11. 3	11. 7	1. 1	17. 0	7. 8	14. 2	21. 1	3. 4	12. 5
Rhode Island.....	100. 0	12. 0	13. 1	. 4	14. 3	9. 3	11. 2	15. 0	5. 0	19. 6
Vermont.....	100. 0	12. 9	13. 7	2. 6	13. 7	2. 3	9. 9	12. 8	8. 8	23. 3

<sup>1</sup> Includes 985 persons classified with light perception or light projection.



**TABLE 14. Total on register by sex, race, and degree of vision: MRA total, as of Dec. 31, 1962 (number and percent)**

Sex and race	Total	Absolute blindness	Light perception	Light projection	Less than 5/200	5/200 but less than 10/200	10/200 but less than 20/200	20/200	Restricted field	Unknown
	Number									
Total.....	42, 474	5, 497	15, 005	407	6, 419	4, 461	6, 103	8, 024	2, 368	4, 190
Male.....	20, 883	2, 817	2, 395	188	3, 089	2, 221	2, 907	3, 945	1, 367	1, 954
Female.....	21, 591	2, 680	2, 610	219	3, 330	2, 240	3, 196	4, 079	1, 001	2, 236
White.....	25, 427	3, 140	2, 979	282	3, 651	2, 668	3, 570	4, 893	1, 347	2, 897
Male.....	12, 653	1, 630	1, 462	138	1, 782	1, 371	1, 748	2, 420	785	1, 317
Female.....	12, 774	1, 510	1, 517	144	1, 869	1, 297	1, 822	2, 473	562	1, 580
Nonwhite.....	9, 130	1, 547	1, 298	70	1, 565	935	1, 101	1, 394	623	597
Male.....	4, 659	798	629	30	795	488	577	711	352	279
Female.....	4, 471	749	669	40	770	447	524	683	271	318
Unknown.....	7, 917	810	728	55	1, 203	858	1, 432	1, 737	398	696
Male.....	3, 571	389	304	20	512	362	582	814	230	358
Female.....	4, 346	421	424	35	691	496	850	923	168	338

TABLE 14.—Continued

Sex and race	Total	Absolute blindness	Light perception	Light projection	Less than 5/200	5/200 but less than 10/200	10/200 but less than 20/200	20/200	Restricted field	Unknown
	Percent									
Total.....	100.0	12.9	<sup>1</sup> 11.8	1.0	15.1	10.5	14.4	18.9	5.6	9.9
Male.....	100.0	13.5	11.5	.9	14.8	10.6	13.9	18.9	6.5	9.4
Female.....	100.0	12.4	12.1	1.0	15.4	10.4	14.8	18.9	4.6	10.4
White.....	100.0	12.3	11.7	1.1	14.4	10.5	14.0	19.2	5.3	11.4
Male.....	100.0	12.9	11.6	1.1	14.1	10.8	13.8	19.1	6.2	10.4
Female.....	100.0	11.8	11.9	1.1	14.6	10.2	14.3	19.4	4.4	12.4
Nonwhite.....	100.0	16.9	14.2	.8	17.1	10.2	12.1	15.3	6.8	6.5
Male.....	100.0	17.1	13.5	.6	17.1	10.5	12.4	15.3	7.6	6.0
Female.....	100.0	16.8	15.0	.9	17.2	10.0	11.7	15.3	6.1	7.1

<sup>1</sup> Includes 985 persons classified with light perception or light projection.



**TABLE 15. Total on register by age and degree of vision: MRA total, as of Dec. 31, 1962 (number and percent)**

Age	Total	Absolute blindness	Light perception	Light projection	Less than 5/200	5/200 but less than 10/200	10/200 but less than 20/200	20/200	Restricted field	Unknown
Number										
Total.....	42, 474	5, 497	<sup>1</sup> 5, 005	407	6, 419	4, 461	6, 103	8, 024	2, 368	4, 190
Under 5.....	365	84	66	10	13	5	16	15	1	155
5-19.....	4, 374	752	599	32	332	238	543	1, 021	68	791
20-44.....	6, 873	896	740	56	852	653	1, 074	1, 529	460	613
45-64.....	11, 095	1, 502	1, 358	94	1, 865	1, 262	1, 507	1, 922	898	687
65-74.....	7, 398	919	879	82	1, 332	917	1, 020	1, 257	446	546
75-84.....	7, 337	810	853	93	1, 238	843	1, 147	1, 359	334	660
85 and over.....	4, 432	486	469	37	721	481	677	798	124	639
Unknown.....	600	48	43	3	66	62	119	123	37	99
Percent										
Total.....	100. 0	12. 9	<sup>1</sup> 11. 8	1. 0	15. 1	10. 5	14. 4	18. 9	5. 6	9. 9
Under 5.....	100. 0	23. 0	18. 1	2. 7	3. 6	1. 4	4. 4	4. 1	. 3	42. 5
5-19.....	100. 0	17. 2	13. 6	. 7	7. 6	5. 4	12. 4	23. 3	1. 6	18. 1
20-44.....	100. 0	13. 0	10. 8	. 8	12. 4	9. 5	15. 6	22. 2	6. 7	8. 9
45-64.....	100. 0	13. 5	12. 2	. 8	16. 8	11. 4	13. 6	17. 3	8. 1	6. 2
65-74.....	100. 0	12. 4	11. 9	1. 1	18. 0	12. 4	13. 8	17. 0	6. 0	7. 4
75-84.....	100. 0	11. 0	11. 6	1. 3	16. 9	11. 5	15. 6	18. 5	4. 6	9. 0
85 and over.....	100. 0	11. 0	10. 6	. 8	16. 3	10. 9	15. 3	18. 0	2. 8	14. 4

<sup>1</sup> Includes 985 persons classified with light perception or light projection.

**TABLE 16. Removals from register by reason for removal: each MRA State and MRA total, 1962 (number and percent)**

State	Total	Death	Left State	Sight restored	Unable to locate	Other
Number						
MRA total.....	3, 843	2, 723	342	622	142	14
Connecticut.....	540	433	66	4	37	—
Kansas.....	552	365	48	121	18	—
Louisiana.....	711	490	54	165	1	1
Massachusetts.....	707	557	63	54	33	—
New Hampshire.....	125	103	11	7	4	—
New Jersey.....	284	166	60	23	32	3
North Carolina.....	705	453	13	238	—	1
Rhode Island.....	74	65	6	1	1	1
Vermont.....	145	91	21	9	16	8
Percent						
MRA total.....	100. 0	70. 9	8. 9	16. 2	3. 7	. 4
Connecticut.....	100. 0	80. 2	12. 2	. 7	6. 9	0
Kansas.....	100. 0	66. 1	8. 7	21. 9	3. 3	0
Louisiana.....	100. 0	68. 9	7. 6	23. 2	. 1	. 1
Massachusetts.....	100. 0	78. 8	8. 9	7. 6	4. 7	0
New Hampshire.....	100. 0	82. 4	8. 8	5. 6	3. 2	0
New Jersey.....	100. 0	58. 5	21. 1	8. 1	11. 3	1. 1
North Carolina.....	100. 0	64. 3	1. 8	33. 8	0	. 1
Rhode Island.....	100. 0	87. 8	8. 1	1. 4	1. 4	1. 4
Vermont.....	100. 0	62. 8	14. 5	6. 2	11. 0	5. 5



**TABLE 17. Removals from register by sex, race, and reason for removal: MRA total, 1962 (number and percent)**

Sex and race	Total	Death	Left State	Sight restored	Unable to locate	Other
Number						
Total.....	3, 843	2, 723	342	622	142	14
Male.....	1, 843	1, 259	187	324	70	3
Female.....	2, 000	1, 464	155	298	72	11
White.....	2, 373	1, 670	219	384	90	10
Male.....	1, 139	755	124	208	49	3
Female.....	1, 234	915	95	176	41	7
Nonwhite.....	737	498	46	179	11	3
Male.....	372	252	28	86	6	—
Female.....	365	246	18	93	5	3
Unknown.....	733	555	77	59	41	1
Male.....	332	252	35	30	15	—
Female.....	401	303	42	29	26	1
Percent						
Total.....	100. 0	70. 9	8. 9	16. 2	3. 7	. 4
Male.....	100. 0	68. 3	10. 1	17. 6	3. 8	. 2
Female.....	100. 0	73. 2	7. 8	14. 9	3. 6	. 6
White.....	100. 0	70. 4	9. 2	16. 2	3. 8	. 4
Male.....	100. 0	66. 3	10. 9	18. 3	4. 3	. 3
Female.....	100. 0	74. 1	7. 7	14. 3	3. 3	. 6
Nonwhite.....	100. 0	67. 6	6. 2	24. 3	1. 5	. 4
Male.....	100. 0	67. 7	7. 5	23. 1	1. 6	0
Female.....	100. 0	67. 4	4. 9	25. 5	1. 4	. 8

**TABLE 18. Removals from register by age and reason for removal:  
MRA total, 1962 (number and percent)**

Age	Total	Death	Left State	Sight restored	Unable to locate	Other
Number						
Total.....	3, 843	2, 723	342	622	142	14
Under 5.....	23	19	3	1	—	—
5-19.....	199	35	69	80	9	6
20-44.....	274	79	87	83	25	—
45-64.....	627	364	68	162	33	—
65-74.....	638	447	42	121	24	4
75-84.....	926	760	34	108	22	2
85 and over.....	1, 071	970	35	46	19	1
Unknown.....	85	49	4	21	10	1
Percent						
Total.....	100. 0	70. 9	8. 9	16. 2	3. 7	. 4
Under 5.....	100. 0	82. 6	13. 0	4. 3	0	0
5-19.....	100. 0	17. 6	34. 7	40. 2	4. 5	3. 0
20-44.....	100. 0	28. 8	31. 8	30. 3	9. 1	0
45-64.....	100. 0	58. 1	10. 8	25. 8	5. 3	0
65-74.....	100. 0	70. 1	6. 6	19. 0	3. 8	. 6
75-84.....	100. 0	82. 1	3. 7	11. 7	2. 4	. 2
85 and over.....	100. 0	90. 6	3. 3	4. 3	1. 8	. 1



**TABLE 19. Removals from register by degree of vision and reason for removal: MRA total, 1962 (number and percent)**

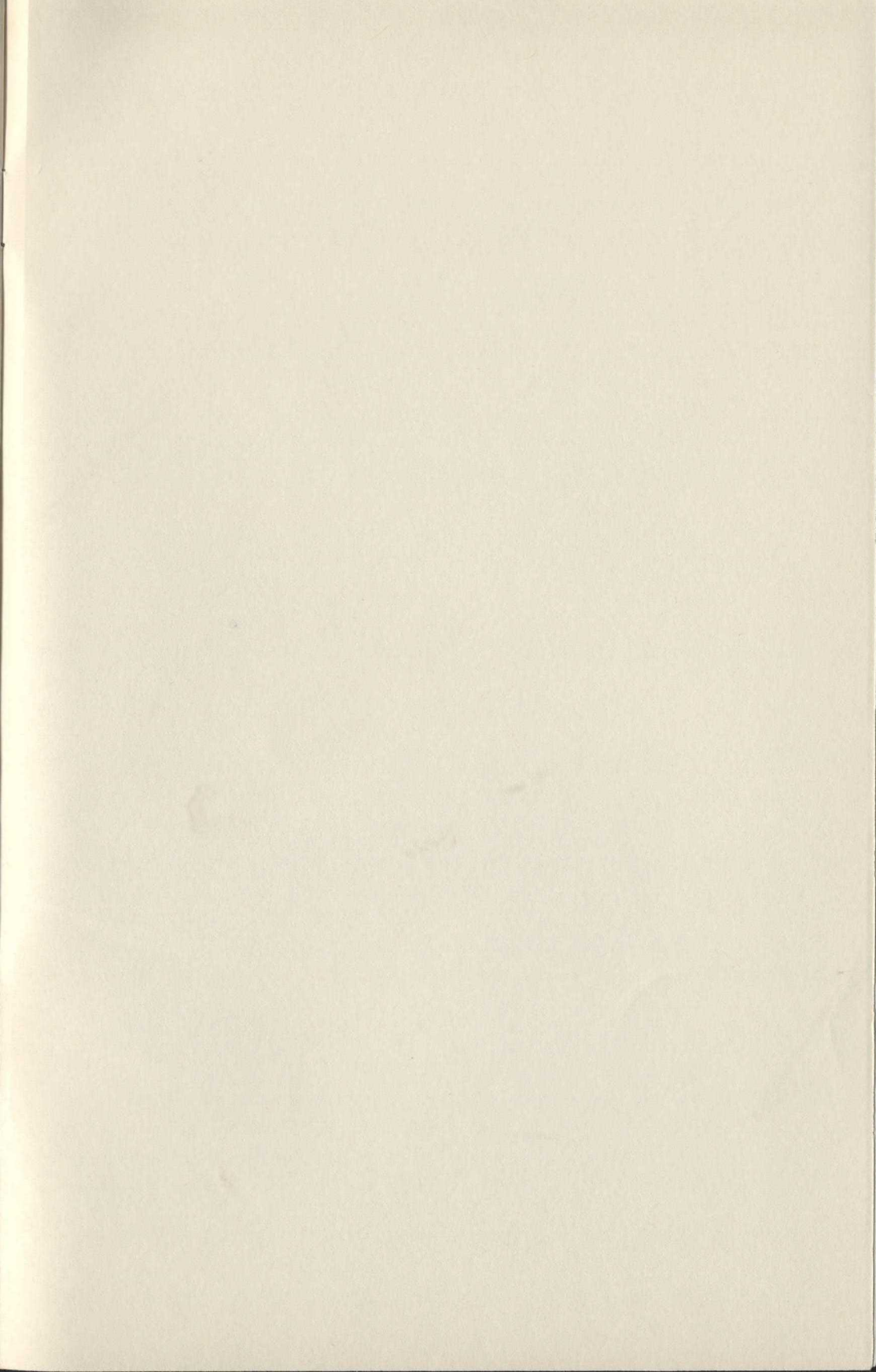
Degree of Vision	Total	Death	Left State	Sight restored	Unable to locate	Other
Number						
Total.....	3, 843	2, 723	342	622	142	14
Absolute blindness..	432	368	48	8	7	1
Light perception.... <sup>1</sup>	398	295	52	39	12	—
Light projection....	38	29	4	4	1	—
Less than 5/200....	515	379	40	81	15	—
5/200 but less than 10/200.....	349	218	30	83	17	1
10/200 but less than 20/200.....	484	309	44	109	22	—
20/200.....	635	380	43	184	26	2
Restricted field....	144	94	14	31	5	—
Unknown.....	848	651	67	83	37	10
Percent						
Total.....	100. 0	100. 0	100. 0	100. 0	100. 0	
Absolute blindness..	11. 2	13. 5	14. 0	1. 3	4. 9	
Light perception.... <sup>1</sup>	10. 4	10. 8	15. 2	6. 3	8. 5	
Light projection....	1. 0	1. 1	1. 2	. 6	. 7	
Less than 5/200....	13. 4	13. 9	11. 7	13. 0	10. 6	
5/200 but less than 10/200.....	9. 1	8. 0	8. 8	13. 3	12. 0	
10/200 but less than 20/200.....	12. 6	11. 3	12. 9	17. 5	15. 5	
20/200.....	16. 5	14. 0	12. 6	29. 6	18. 3	
Restricted field....	3. 7	3. 5	4. 1	5. 0	3. 5	
Unknown.....	22. 1	23. 9	19. 6	13. 3	26. 1	

<sup>1</sup> Includes 34 persons classified with light perception or light projection.

TABLE 1. *Mean values of the various parameters of the water quality of the Tiber River, Rome, Italy, during the period 1961-1962.*

Date	Physical and chemical parameters					Biological parameters
	Temperature (°C)	pH	Dissolved oxygen (mg/l)	Electrical conductivity (μmhos/cm)	Total dissolved solids (mg/l)	
1961						
1-12	12.5	7.8	8.5	150	150	100
1-19	13.5	7.9	8.6	155	155	105
1-26	14.5	8.0	8.7	160	160	110
2-2	15.5	8.1	8.8	165	165	115
2-9	16.5	8.2	8.9	170	170	120
2-16	17.5	8.3	9.0	175	175	125
2-23	18.5	8.4	9.1	180	180	130
2-30	19.5	8.5	9.2	185	185	135
3-6	20.5	8.6	9.3	190	190	140
3-13	21.5	8.7	9.4	195	195	145
3-20	22.5	8.8	9.5	200	200	150
3-27	23.5	8.9	9.6	205	205	155
4-3	24.5	9.0	9.7	210	210	160
4-10	25.5	9.1	9.8	215	215	165
4-17	26.5	9.2	9.9	220	220	170
4-24	27.5	9.3	10.0	225	225	175
5-1	28.5	9.4	10.1	230	230	180
5-8	29.5	9.5	10.2	235	235	185
5-15	30.5	9.6	10.3	240	240	190
5-22	31.5	9.7	10.4	245	245	195
5-29	32.5	9.8	10.5	250	250	200
6-5	33.5	9.9	10.6	255	255	205
6-12	34.5	10.0	10.7	260	260	210
6-19	35.5	10.1	10.8	265	265	215
6-26	36.5	10.2	10.9	270	270	220
7-3	37.5	10.3	11.0	275	275	225
7-10	38.5	10.4	11.1	280	280	230
7-17	39.5	10.5	11.2	285	285	235
7-24	40.5	10.6	11.3	290	290	240
7-31	41.5	10.7	11.4	295	295	245
8-7	42.5	10.8	11.5	300	300	250
8-14	43.5	10.9	11.6	305	305	255
8-21	44.5	11.0	11.7	310	310	260
8-28	45.5	11.1	11.8	315	315	265
9-4	46.5	11.2	11.9	320	320	270
9-11	47.5	11.3	12.0	325	325	275
9-18	48.5	11.4	12.1	330	330	280
9-25	49.5	11.5	12.2	335	335	285
10-2	50.5	11.6	12.3	340	340	290
10-9	51.5	11.7	12.4	345	345	295
10-16	52.5	11.8	12.5	350	350	300
10-23	53.5	11.9	12.6	355	355	305
10-30	54.5	12.0	12.7	360	360	310
11-6	55.5	12.1	12.8	365	365	315
11-13	56.5	12.2	12.9	370	370	320
11-20	57.5	12.3	13.0	375	375	325
11-27	58.5	12.4	13.1	380	380	330
12-4	59.5	12.5	13.2	385	385	335
12-11	60.5	12.6	13.3	390	390	340
12-18	61.5	12.7	13.4	395	395	345
12-25	62.5	12.8	13.5	400	400	350
1962						
1-1	63.5	12.9	13.6	405	405	355
1-8	64.5	13.0	13.7	410	410	360
1-15	65.5	13.1	13.8	415	415	365
1-22	66.5	13.2	13.9	420	420	370
1-29	67.5	13.3	14.0	425	425	375
2-5	68.5	13.4	14.1	430	430	380
2-12	69.5	13.5	14.2	435	435	385
2-19	70.5	13.6	14.3	440	440	390
2-26	71.5	13.7	14.4	445	445	395
3-5	72.5	13.8	14.5	450	450	400
3-12	73.5	13.9	14.6	455	455	405
3-19	74.5	14.0	14.7	460	460	410
3-26	75.5	14.1	14.8	465	465	415
4-2	76.5	14.2	14.9	470	470	420
4-9	77.5	14.3	15.0	475	475	425
4-16	78.5	14.4	15.1	480	480	430
4-23	79.5	14.5	15.2	485	485	435
4-30	80.5	14.6	15.3	490	490	440
5-7	81.5	14.7	15.4	495	495	445
5-14	82.5	14.8	15.5	500	500	450
5-21	83.5	14.9	15.6	505	505	455
5-28	84.5	15.0	15.7	510	510	460
6-4	85.5	15.1	15.8	515	515	465
6-11	86.5	15.2	15.9	520	520	470
6-18	87.5	15.3	16.0	525	525	475
6-25	88.5	15.4	16.1	530	530	480
7-2	89.5	15.5	16.2	535	535	485
7-9	90.5	15.6	16.3	540	540	490
7-16	91.5	15.7	16.4	545	545	495
7-23	92.5	15.8	16.5	550	550	500
7-30	93.5	15.9	16.6	555	555	505
8-6	94.5	16.0	16.7	560	560	510
8-13	95.5	16.1	16.8	565	565	515
8-20	96.5	16.2	16.9	570	570	520
8-27	97.5	16.3	17.0	575	575	525
9-3	98.5	16.4	17.1	580	580	530
9-10	99.5	16.5	17.2	585	585	535
9-17	100.5	16.6	17.3	590	590	540
9-24	101.5	16.7	17.4	595	595	545
9-30	102.5	16.8	17.5	600	600	550
10-7	103.5	16.9	17.6	605	605	555
10-14	104.5	17.0	17.7	610	610	560
10-21	105.5	17.1	17.8	615	615	565
10-28	106.5	17.2	17.9	620	620	570
11-4	107.5	17.3	18.0	625	625	575
11-11	108.5	17.4	18.1	630	630	580
11-18	109.5	17.5	18.2	635	635	585
11-25	110.5	17.6	18.3	640	640	590
12-2	111.5	17.7	18.4	645	645	595
12-9	112.5	17.8	18.5	650	650	600
12-16	113.5	17.9	18.6	655	655	605
12-23	114.5	18.0	18.7	660	660	610
12-30	115.5	18.1	18.8	665	665	615







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